United States Patent [19]

Mondshine

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[54] **WELL COMPLETION AND WORK OVER METHOD**

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[*] Notice: The portion of the term of this patent subsequent to Feb. 5, 1997, has been disclaimed.

[21] Appl. No.: **874,770**

[22] Filed: **Feb. 3, 1978**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 735,168, Oct. 26, 1976, abandoned.

[51] **Int. Cl.**[3] **E21B 33/138**

[52] **U.S. Cl.** ..... **166/292;** 166/305 R; 252/8.55 R

[58] **Field of Search** ..... 252/8.55 R, 8.5 A, 8.5 B, 252/8.5 LC; 166/305 R, 283, 308, 292

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[57] **ABSTRACT**

A well completion and workover method wherein a subterranean formation is contacted with a high density, nondamaging treating fluid which comprises a saturated, aqueous saline solution with at least one water soluble salt that is substantially insoluble in the saturated saline solution. The water soluble salt has a particle size range of about 5 microns to about 800 microns, and greater than about 5 percent of the particles are coarser than 44 microns to control the pressure in the formation; to bridge and seal off the formation; to avoid particle invasion; and also to minimize fluid loss to the formation. A minor amount of a fluid loss additive is included in the treating fluid to inhibit loss of fluid into the formation and a minor amount of a suspension additive is included in the treating fluid to prevent settling of the water soluble salt particles in the aqueous saline solution. The aqueous saline solution should have a density of at least about 10 pounds per gallon.

5 Claims, 2 Drawing Figures